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KULISH, S.A., inzh.

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1. Khar'kovskiy inzhenerno-ekonomicheskiy institut.
Rekomendovana kafedroy ekonomiki i organizatsii material'notekhnicheskogo snabzheniya.
(Coal mines and mining--Costs)

KULISH, S.A., inzh.; CHUGAYENKO, N.I.

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l. Khar'kovskiy inzhenerno-ekonomicheskiy institut. Kekomendovana kafedroy ekonomiki i organizatsii material!no-tekhnicheskogo snabzheniya.

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EULISH, S.A.

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KULISH, S.A., kand.ekon.nauk, dotsent

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1. Khar'kovskiy inzhenerno-ekonomicheskiy institut.
(Donets Basin--Coal mines and mining-Equipment and supplies)

NAUMENKO, K.D., doktor ekonom.nauk, prof.; EULISH, S.A., kand.ekonom.nauk, dotsent; CHUGAYENKO, N.I., inzh.

"Fundamentals for setting norms in material expenditures in coal mining" by M.E.Raikher, I.G.Guberman. Reviewed by K.D.Naumenko, S.A.Kulish, N.I.Shugaenko. Ugol' 36 nc.8:62-63 ag '61. (MIRA 14:9)

1. Khar kovskiy inzhenerno-ekonomicheskiy institut.
(Coal mines and mining--Equipment and supplies)
(Coal mines and mining--costs)
(Raikher, M.E.) (Guberman, I.G.)

KULISH, S. A., inzh.

Limits for enlarging lumber warehouses, Izv. vys. ucheb. zav.; gor. zhur. 5 no.8:68-70 62. (MIRA 15:10)

1. Khar'kovskiy inzhenerno-ekonomicheskiy institut. Rekomendovana kafedroy ekonomiki i organizatsii material'no-tekhnicheskogo snabzheniya.

(Lumber-Storage)

Investigation of manpower used for the storage of lumber and mining materials in mines. Izv. vys. ucheb. zav.; gor. zhur. 6 no.9:72-76 '63. (MIRA 17:1)

1. Khar'kovskiy inzhenerno-ekonomicheskiy institut. Rekomendovana kafedroy ekonomiki i organizatsii gornoy promyshlennosti.

Using correlation for the analysis of coal costs. Ugol' Ukr. 7 no.11:48-49 N '63. (MIRA 17:4)

1. Khar'kovskiy inzhenerno-ekonomicheskiy institut.

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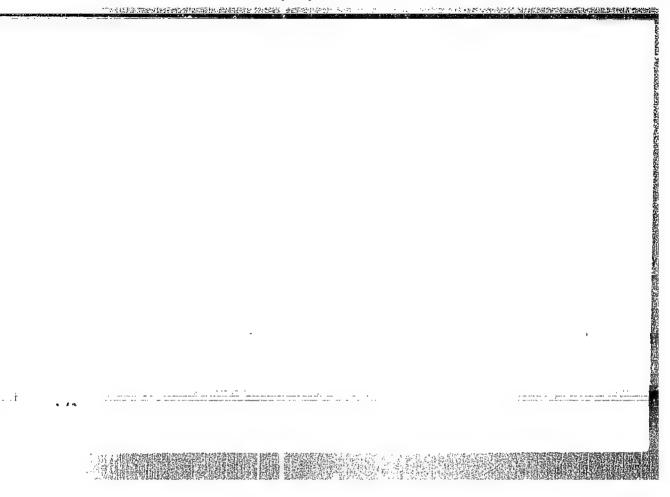
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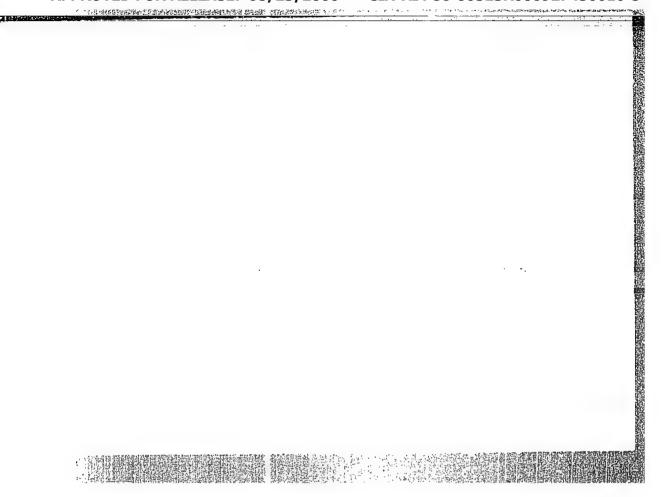
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1. Sibirskiy fiziko-tekhnicheskiy institut imeni V.D. Kuznetsova. Submitted May 26, 1964.

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CIA-RDP86-00513R000927430010-5

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CHERNYSHEVICH, Fedor Ignat'yevich, inzh.; GURETSKIY, Semen Aleksandrovich, inzh.; KULISH, Viktor Fedorovich. inzh.; Prinimal uchastiye MIRONOV, K.A., inzh.; ROMADINA, I.V.; AYBASHEVA, T.V., red.

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Moskva, Transport, 1965. 98 p. (MIRA 18:8)

VASILENEO, V.A., kand.filosofskikh nauk, polkovnik zapasa; KULAKOV, V.M., kand.istoricheskikh nauk, kapitan I ranga; KULISH, V.M., kand. istoricheskikh nauk, polkovnik; GOLUBOV, A.V., polkovnik, red.; DOZHDEV, I.M., tekhn.red.

[Present-day imperialist military ideology] Sovremennaia imperialisticheskaia voennaia ideologiia. Pod red. V.A. Vasilenko, V.H. Kulakova i V.M. Kulish. Moskva, Voen. isd-vo M-va obor. SSSR, 1958. 495 p. (MIRA 12:2)

1. Voyenno-politicheskaya krasnoshamennaya akadeniya imeni V.I. Lenina. (Military art and science)

# "APPROVED FOR RELEASE: 08/23/2000

CIA-RDP86-00513R000927430010-5

HULISH, YA.K.

WSR/Miscellaneous

Card 1/1

# Pub. 133 - 21/21

Authors

: Kulish, Ya. K., deputy of the Kursk Line Technical Administration

Title

! Line Technical Centers are supplied unsatisfactorily with poles

Periodical

f Vest. svyazi 9, the 3-rd page of the folder, Sep 1954

Atotract

In a letter to the editor the author describes various discrepancies in supplying the line technical centers of Kursk Oblast' with telegraph and telephone poles.

Institution

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Submitted

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KULISH, Ye. A. Cand Geol-Min Sci -- "Geology and petrology of quertaites of the Archeen rocks of the southern Aldan shield." Lon, 1960. (Acad Sci USSR. Geol Museum im A. P. Kerpinskiy. Len State Ped Inst im A. I. Gertsen. Chair of Geology) (KL, 1-Gl, 185)

-89-

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(MIRA 13:10)

(Gorbylyakh Valley--Quartsite)

# KULISH, Ye.A.

Early Mesozoic alkali granites in the southern Aldan Shield. Geol. i geofiz. no.12:112-115 '60. (MIRA 14:5)

1. Geologicheskiy muzey AN SSSR imeni A. P. Karpinskogo Leningrad (Aldan Plateau-Granite)

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Manganese-alumina rocks with viridine in the Archean of the Aldan Shield. Geol. 1 geofiz..na.1:53-65 .61. (MIRA 14:5)

1. Geologicheskiy muzey AN SSSR imeni A.P. Karpinskogo, Leningrad. (Aldan Plateau-Viridine)

KULISH Ya.D.; SOLOMONOV, A.Ye.

Boring horizontal connection boreholes from an inclined shaft at the Moscow Basin "Podsemgas" plant, Podsem.gas.ugl. no.1:46-51 '57. (MIRA 10:7)

1. Podmoskovnaya stantsiya "Podsemgas."
(Moscow Basin-Boring)

Industr Poduem.,	ial operation of the Moscow E gaz.ugl. no.2:27-31 '57.	asin "Podzemgaz" piant. (MLRA 10:7)
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KULISH, Ye. Ye.

21(5) pr 7,3 PHASE I BOOK EXPLOITATION SOV/1297

- Vsesoyuznaya nauchno-tekhnicheskaya konferentsiya po primeneniyu radioaktivnykh i stabil'nykh izotopov i izlucheniy v narodnom khozyaystve i nauke, Moscow, 1957
- Polucheniye izotopov. Moshchnyye gamma-ustanovki. Radiometriya i dozimetriya; trudy konferentsii... (Isotope Production. High-energy Gamma-Radiation Facilities. Radiometry and Dosimetry; Transactions of the All-Union Conference on the Use of Radioactive and Stable Isotopes and Radiation in the National Economy and Science) Moscow, Izd-vo AN SSSR, 1958. 293 p. 5.000 copies printed.
- Sponsoring Agency: Akademiya nauk SSSR; Glavnoye upravleniye po ispol'zovaniyu atomnoy energii SSSR.
- Editorial Board: Frolov, Yu.S. (Resp. Ed.), Zhavoronkov, N.M. (Deputy Resp. Ed.), Aglintsev, K.K., Alekseyev, B.A., Bochkarev, V.V., Leshchinskiy, N.I., Malkov, T.P., Sinitsyn, V.I., and Popova, G.L. (Secretary); Tech. Ed.: Novichkov, N.D.

Card 1/12

Isotope Production (Cont.)

SOV/1297

PURPOSE: This collection is published for scientists, technologists, persons engaged in medicine or medical research, and others concerned with the production and/or use of radioactive and stable isotopes and radiation.

COVERAGE: Thirty-eight reports are included in this collection under three main subject divisions: 1) production of isotopes 2) high-energy gamma-radiation facilities, and 3) radiometry and dosimetry.

TABLE OF CONTENTS:

#### PART I. PRODUCTION OF ISOTOPES

Frolov, Yu.S., V.V. Bochkarev, and Ye.Ye. Kulish. Development of Isotope Production in the Soviet Union

This report is a general survey of production methods, apparatus, raw materials, applications, investigations and future prospects for radio isotopes in the Soviet Union.

Card 2/12

Isotope Production	SOV/1297
Kulish, Ye.Ye. Several Problems on ( Isotopes with a Nuclear Reactor	Obtaining Radioactive
Dmitriyev, P.P., I.I. Zhivotovskiy I.P. Selinov, and Ye.N. Khaprov. Practive Isotopes in a Cyclotron Woof 10 Mev	1th Deuteron Energies
Maksimov, M.Z. Determining the Yie	ld of Reaction Products 3
Karabash, A.G., and Sh.I. Peyzulayev Methods of Analyzing High-freque in Reactor Building and the Prod Isotopes	uction of Radio
L'vov, B.V., and G.I. Kibisov. The Determination of Admixtures in R	Spectral Quantitative adioactive Preparations 5
Card 3/12	

	007/1007
Isotope Production	sov/12 <b>9</b> 7
Petrova, M.S. Preparation of Son	
and Gamma-Radiation Using Oxider and Its Alloys	de Films on Aluminum 5!
•	
Zolotarev, V.S. Stable Isotopes magnetic Method	Enriched by the Electro-
Gusev, V.M. Ultra High-temperate	
Electromagnetic Separation of Is- Group Elements	otopes of Platinum
This article describes the ba	sic structural features of
an ultra-high-temperature ion	
sults of its use in separating small electromagnetic separate	or. A hot cathode discharge
is maintained in vapors of the	e element being separated and
isotope ions are drawn from the through an aperture. A later	ne gas discharge chamber al electron beam with energies
of 20-25 kev creates chamber	temperatures up to 2800° C.
Cond II /10	
Card 4/12	

Isotope Production Sov/1297	
A7-linear and the N. W. And D. L. Company	
Alekseyevskiy, N.Ye., A.V. Dubrovin, G.I. Kosourov, G.P. Prudkovskiy, S.I. Filimonov, V.I. Chekin, V.N. Shelyapin (deceased), and T.K. Shuvalova. Utilization of Mass Spectrometers With a Nonhomogeneous Field for Analyzing Isotopes of Light Elements	3
Ordzhonikidze, K.G., and G.N. Zubarev. Relative Propagatability of Palladium and Germanium Isotopes 7	3
Rczen, A.M. Some Problems on the Theory of Isotope Separation 8	5
Gverdtsiteli, I.G., and V.K. Tskhakaya. Separation of Isotopes of Light Elements by Diffusion in Vapors	}
Barvikh, G.F., and R.Ya. Kucherov. A Diffusion Column for Separating Isotopes	?
Card 5/12	
sagino-assagna as sur su de como de co	

Isotope Production	sov/1297
Myulenfordt, Yu.K., G.G. Zivert, and T.A tification Column for Obtaining BF3, Enr Isotope BIO  A method is described for enriching recontaining ~ 18.6 percent BIO concent BIO concentration by low temperature scale not stated) adiabatic rectification capability was BIO of 95-96 percent processing; but, as the desired concept percent, separation yield was 4 liter diagrams of installations are given.	atural mixtures ration to ~80 percent (~ - 100 degrees, ation. Separation burity after 480 hours partration was ~80
Zhavoronkov, N.M., O.V. Uvarov, and S on the Separation of Stable Isotopes	I. Babkov. Research of Light Elements 134
Tunitskiy, N.N., G.G. Devyatykh, M.V. 'A.D. Zorin, and N.I. Nikolayev. Separa Isotopes	Fikhomirov.
Card 6/12	

Basic problems concomitant to planning and constructing radiation facilities are systematized according to the drawings are given for some facilities classified as to radiation of relatively small objects (animals, plants) various biological preparations of small size to small size the drawings are given for some facilities classified as to radiation of relatively small objects (animals, plants) various biological preparations of small size that		
of Separating Helium Isotopes (He3 - He4)  PART II. HIGH-ENERGY GAMMA FACILITIES  Sinitsyn, V.I. Problems and Trends in Creating High-energy  Gamma Facilities  Bibergal', A.V., U.Ya. Margulis, and V.G. Khrushchev. Prin- High-energy Sources in Radiobiology and Medicine  Basic problems concomitant to planning and constructing purpose of the facility. Descriptions and schematic purpose: a) experimental radiobiology, intended for low b) experimental installations intended for radiation of various biological preparations of small size but the	Isotope Production (Cont.)	Sor (a. a.
PART II. HIGH-ENERGY GAMMA FACILITIES  Sinitsyn, V.I. Problems and Trends in Creating High-energy  Bibergal', A.V., U.Ya. Margulis, and V.G. Khrushchev. Prin- High-energy Sources in Radiobiology and Medicine  Basic problems concomitant to planning and constructing purpose of the facilities are systematized according to the drawings are given for some facilities classified as to radiation of relatively small objects (animals, plants)  b) experimental installations intended for radiation of various biological preparations of small size but the property of the stallation of small size but the property of small size	Peshkov, V.P., and V.M. Kuznetsov. Low Temp of Separating Helium Isotopes (He3 - He4	
Bibergal', A.V., U.Ya. Margulis, and V.G. Khrushchev. Prin- Ciples and Techniques of Using Radioactive Isotopes as Basic problems concomitant to planning and constructing radiation facilities are systematized according to the drawings are given for some facilities classified as to purpose: a) experimental radiobiology, intended for low b) experimental installations intended for radiation of various biological preparations of small size buts.	PART II. HIGH-ENERGY CA	MMA BACTTON
Bibergal', A.V., U.Ya. Margulis, and V.G. Khrushchev. Prin- High-energy Sources in Radiobiology and Medicine Basic problems concomitant to planning and constructing purpose of the facility. Descriptions and schematic purpose: a) experimental radiobiology, intended for low b) experimental installations intended for radiation of various biological preparations of small size him by small si	Gamma Facilities and Trends in Crea	ting High-energy
radiation facilities are systematized according to the drawings are given for some facilities classified as to radiation of relatively small objects (animals allowed)	Bibergal', A.V., U.Ya. Margulis, and V.G. Khi ciples and Techniques of Using Radioactive	rushchev. Prin-
preparations of small size button of	radiation facilities are systematized accompurpose of the facility. Descriptions and purpose: a) experimental radiobiology, in b) experimental descriptions and boundary of relatively small objects (and the content of	nd constructing cording to the nd schematic assified as to attended for low
	ard 7/12	size but

182

Isotope Production (Cont.)

SOV/1297

requiring high dosage (microorganisms, biological substrates) c) industrial radiation of biological products requiring sterilization, preservation, disinfection, etc. d) medical and therapeutical purposes.

Breger, A. Kh., V.A. Belynskiy, V.L. Karpov, S.D. Prokudin and V.B. Osipov. Facility for Radiation-Chemical Research Employing Co Gamma-Radiation Source With an Activity of

21,000 g-ev of Radium

A K-20000 Co<sup>60</sup> gamma-radiation source, cited as the most powerful in the world according to available data, is described and basic parameters tabulated. The unit is provided with a control panel and a system of periodic observation and is capable of 1200 r/sec dosage per 0.4 chamber capacity is~300 liters. The source, comprising for attending personnel owing to a "dry" method especially developed for this unit.

Card 8/12

#### 08/23/2000 CIA-RDP86-00513R000927430010 SOV/1297

Babushkin, A.V., I.V. Voznesenskaya, Zatulovskiy, and Yu.L. Khmel'nitskiy.	N.G. Zhirov, Laboratory	V.I.	
Employing Cobalt Emitters	•		189

Zatulovskiy, V.I.	Sources of	Ionizing	Radiation	for Us	е
in Radiation Che	m1stry				193

A Pilot Plant Installation for	l', and U.Ya. Margulis. r the Radiation Disin-
festation of Grain	200

Chernyayev, N.D.	Gamma-Radiators	for the	Preservation	of	
Food Products					206

# PART III. RADIOMETRY AND DOSIMETRY

Adrova,	N.A.,	M.M.	KotonYu	N. Panov	Httl://aina	Scintilla-	
ting	Plasti	es to	Register	Radioactive	Emissions	DOTHUTTIW-	213

Gol'bek, G.R., and A.N. Vyal'shin. Using Soviet Germanium	
Transistors in Building Radiometric Equipment	220
Card 9/12	220

Yorobyeva, L.V., K.S. Kalugin, and Yo Set-up for Measuring Individual Do Within a Wide Range	u.M. Shtukkenberg. oses of Gamma-rays
Lyapidevskiy, V.K. The Use of a Dif Measuring Low Activity	fusion Chamber for 235
Gol'bek, G.R., and A.N. Vyal'shin. Posimeters General description and electric given for a pocket-sized radiomet proximate determination of gamma-intensities above 1 Mev. Time 1a radiation registration serves as determination of intensity up to accuracy of \$\diamoleq\$ 20 percent. Workin and electric circuit diagram are dosimeter capable of detecting ap of gamma- and beta-radiation from	circuit diagrams are er intended for ap- and hard beta-ray pse after onset of a parameter for the 1000 \(\mu r/\hr\) with an ag principle, components given for a pocket-size approximate intensities
Card 10/12	

A CONTROL OF THE PROPERTY OF T	the state of the s
Isotope Production (Cont.)	SOV/1297
and above 0.2 Mev, respectively.	
Lantratov, M.F., V.Ye. Manoylov, and O.A. Myazdr A Photocolorimetric Method of Beta-dosimetry	246 246
Baranov, S.A., and R.M. Polevoy. A Counter for the Absolute [Activity] of Charged Particles	[Determining] 251
Lantratov, M.F., V.Ye. Manoylov, and O.A. Myazd Galvanic Method of Measuring Beta-activity	irikov. A 254
Kogan, R.M., and N.K. Pereyaslova. The Use of a Photofilm- Scintillating Crystal System for Registering Gamma-	Photofilm-
Radiation	260
Kalugin, K.S., and V.V. Markelov. On the Proble Measuring Weak Currents	om of 264
Card 11/12	

•	uction (Cont.)	SOV/1297	
Shtukkenberg for Absol	, Yu.M., and V.I. Drobo ute Measurement of Acti	t. Employing a $4\pi$ -Counter vity	270
Shtukkenberg a 477-Cou Electrons	, Yu.M., and V.I. Drobo inter for Registering In	t. A Method Employing ternal-Conversion	278
Crystals for This arti measureme instrumen diameter, Correction	it uses two standard sti	f Beta-activity. for the absolute m 0.15 to 3.5 Mev. The lbene crystals (30 mm comultiplier FEU-19 or FEU-29	285
AVATLABLE:		Matr	
** * * * * * * * * * * * * * * * * * * *	4-	10-59	

KULISH, Ye Ye.

21(7) PHASE I BOOK EXPLOITATION SOV/1378

Sovremennoye oborudovaniye dlya raboty s radioaktivnymi izotopami; sbornik materialov (Modern Equipment for Working With Radioactive Isotopes; Collection of Materials) Moscow, Izd-vo glavnogo upravleniya po ispol'zovaniyu atomnoy energii pri sovete M-va SSSR, 1958. 110 p. (Series: Atomnaya energiya. Prilozheniye, 1958, no. 5) 8,450 copies printed.

Ed.: Zavodchikova, A.I.; Tech. Ed.: Popova, S.M.

PURPOSE: This book is intended for personnel engaged in activities involving the use of radioactive isotopes.

COVERAGE: This is supplement No. 5 to the periodical Atomnaya energiya for 1958. It contains 3 articles dealing with modern techniques, methods and apparatus for handling radioactive isotopes and may serve as a handbook in this respect. Schematic diagrams and illustrations of modern equipment for the remote handling of radioactive materials are given, as well as detailed descriptions of working principles.

Card 1/5

Modern Equipment (Cont.) SOV/1378	
Bochkarev, V.V., Ye. Ye. Kulish and I.F. Tupitsyn. Several Technical and Technological Problems of the Production of Radioactive Isotopes and Tagged Compounds in the USSR	5
Introduction 1. Preparation of materials for irradiation 2. Irradiation of samples 3. Reworking radioactive materials. Standard procedures 4. Methods of obtaining several "key" and complex organic compounds 5. Glove boxes, some attachments and apparatus for manipulation 6. Analysis and measurement of the activity of preparations  Yakovlev, G.N., and V.B. Dedov. Development of Methods for Distance Work in Radiochemical Laboratories of the Academy of Sciences, USSR  Samokhvalov, N.V. Protective and Manipulatable Structures for Working With Radioactive Isotopes Introduction Card 2/5	5 8 10 11 17 22 26 38 38

#### "APPROVED FOR RELEASE: 08/23/2000 CIA-RDP86-00513R000927430010-5

Ch. I.	Development of Protective Technique in Jobs Involving Radioactive Preparations	39
1,	The present state of techniques for working with radio active preparations	41
5.	New methods of developing techniques for working with radioactive preparations	43
3.		41
Ch. II	. Mechanical Holding Devices	50
1.	T. Pneumatic Remote-control Manipulators Stationary pneumatic manipulators	50
2.	device	6
3.	A "double-cavity" pneumatic holding device	6:
.ch. IV	. Measuring Hoppers for Liquids	6
ard 3/5		

	nipment (Cont.)	amidal onergtions	63
1.	Automatic pipette for radioche Measuring hopper for radioche	micals	63 67
2. 3.	A self-drying pneumatically c	ontrolled syringe-	69
_	ninette		71
4.	"hydrodo IIIIII"	1 micronipettes	71 74 75
5.	A micropump with radiochemica A pedal micropump	I mile opape of	75
			76
Ch. V.	Hydraulic Manipulators for R A stationary, manually-operat	ed hydraulic manipulator	77 82 85
<b>A</b> .	A milletanannalan nvormulitu ika	III Du La voi	82
3.	Other modifications of hydrau	ilic manipulators	op
Ch. VI	. Pneumatic Hydraulic Manipul	lator for Radioactive	87
	Preparations		·
ሮክ ህገ	I. Geared Mechanisms for Man	lpulatory Apparatus	88
1.	A lifting-turning gear-screw	MACHALITAM	90 91
_	A June 1 June 1 Market	nism	92
3∙	Two-profile combined rack med	: 01fccsrmo.m	-
Card 4/5		j	

# "APPROVED FOR RELEASE: 08/23/2000 CIA-RDP86-00513R000927430010-5

Modern Equipment (Cont.) SOV/1378	-1
4. Mechanisms with two-profiled gears for omnidirections manipulating	94
5. Rack and pinion staggered-gear mechanisms	95
Ch. VIII. Nonwasteful Methods for Controlling Ampules	98
Ch. IX. Some Deactivation Methods	101
<ol> <li>Hydromechanical decontamination of surfaces by remote control</li> </ol>	101
2. Multisolution stationary deactivators	105
Conclusions	108
AVAILABLE: Library of Congress	
TM/ksv 4-30-59	
Card 5/5	

#### "APPROVED FOR RELEASE: 08/23/2000

#### CIA-RDP86-00513R000927430010-5

BOVEKAREV, V. V., KULISH, E. E. et al.	
"Some Engineering Technological Aspects of Radioisotope and Labeled Compound Froduction in the USSR."	a design of the second of the
paper to be presented at the 2nd UN Intl. Conf. on the peaceful uses of Atomic Energy, Geneva, 1 - 13 Sept 58.	
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	7

SOV/89S-58-5-1/4

21(5) AUTHORS: Bochkarev, V. V., Kulish, Ye. Ye., Tupitsyn, I. F.

TITLE:

Some Technical and Technological Problems in the Production of Radioactive Isotopes and Tracer Compounds in the USSR (Nekotoryye tekhnicheskiye i tekhnologicheskiye voprosy proizvodatva radioaktivnykh izotopov i mechenykh soyedineniy v SSSR)

PERIODICAL:

Atomnaya energiya, 1958, Supplement 5, pp 5 - 25 (USSR)

ABSTRACT:

In 1958, 110 radioactive isotopes were produced commercially. 92 of them were formed by neutron irradiation. Prior to the irradiation the initial materials must be purified, if possible, so that in the subsequent processing of the radioactive elements the impurity activities do not yield too much wasts. ory often it is possible to carry out the irradiations with enriched isotopes such as Fe55, Sn123, Te127, Se75, Cd115. The portions irradiated fluctuate between 0.5, 1.0, 10 and 20 cm and were contained either in aluminum containers, boron-free glass bottles or plastic containers. The irradiation periods for isotopes with a half-life up to 3 days is 6, 9 or 15 hours. Isotopes with a half-life period of 3-30 days are

card 1/4

Some Technical and Technological Problems in the 50V/89S-58-5-1/4 Production of Radioactive Isotopes and Tracer Compounds in the USSR

irradiated for 30 days. Isotopes with a half-life of more than 30 days (835, Ca45) are kept in the reactor for 90 days. For the production of the isotopes c14 and c136 the initial material is irradiated for 6 to 12 months. In order not to disturb the most favorable reactor flux distribution on the feeding of the reactor with the ampoules to be irradiated a load diagram of the single irradiation chambers was set up prior to the experiments. The feeding in the different channels is therefore carried out in such a way that the original flux distribution is maintained. The irradiated samples are treated radiochemically and the desired radioactive isotopes are separated. In certain cases certain compounds are marked by these radioactive isotopes. The still high amounts of the preparations are then divided and filled into smaller ampoules. In the USSR 280 of the 450 chemical compounds produced in the usual way were produced which are synthesized from C14, S35, H3, p32, C136. For the production of tracer compounds only 1 or 2 initial materials are used .. for the isotopes mentioned above. In this connection it is often necessary to build-in the radioactive atoms into a

Card 2/4

4

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Some Technical and Technological Problems in the 30V/89S-58-5-1/4 Production of Radioactive Isotopes and Tracer Compounds in the USSR

certain place of a polyatomic molecule. The transition into a complex organic compound takes place by synthesis or other radiochemical methods such as isotopic exchange, reactions with "hot"atoms etc. The production of chemical compounds traced with soft  $\beta$  radiators is carried out at a preparation activity of 100 mC until some C are attained; this is done in laboratories equipped with glove boxes. For the production of organic compounds marked with C  $^{14}$  mainly the synthetic method is applied using almost always BaC  $^{140}$ , as an initial

product. The possible intermediate products are listed in a table. The possibilities based on the synthetic method are mentioned by which various compounds marked with \$35 can be obtained from barium sulfate as an initial substance. The discharge channels and boxes used in the laboratories are equipped with manipulators or gripping gloves. Moreover, they are equipped with filters collecting the aerosols and gaseous are equipped with own impurities. Furthermore, these rooms are equipped with own water, gas and vacuum supplies and dispose of special channels for the removal of radioactive waste products. Photographic

Card 3/4

Some Technical and Technological Problems in the SOV/89S-58-5-1/4 Production of Radioactive Isotopes and Tracer Compounds in the USSR

representations are shown of 4 types of these boxes. Other very important appliances used in these radioactive laboratories are remote-control tools such as tongs, pincers, mirrors etc. Remote-controlled cutting tools, soldering bits etc. play an important part too. For the manipulation of very small volumes of active liquid volumes hydromanipulators, automatic remote-controlled burettes and pipettes are used. It is possible, for instance, to decant volumes 0.1 - 100 ml in accurate doses by means of such a hydromanipulator. Before dispatch each preparation is closely examined. The physicochemical constants, the content of the main components, the total and the specific activity, the share of the active and inactive impurities are determined. As an example it is described how the content of the 7-isomer C136m is determined in a hexachlorane preparation not yet purified. The quantitative determination of small concentrations is carried out mainly by spectrum analysis or by the polarographic method. Marked preparations used for medical or biological purposes are additionally examined as to their content of physiologically important admixtures. There are 14 figures and 2 tables.

Card 4/4

KULISH, YE YE

PHASE I BOOK EXPLOITATION

sov/4536

- Tashkentskaya konferentsiya po mirnomu ispol'zovaniyu atomnoy energii. Tashkent, 1959
- Tezisy dokladov (Outlines of Reports of the Tashkent Conference on the Peaceful Uses of Atomic Energy) Tashkent, Izd-vo AN Uzbekskoy SSR, 1959. 229 p. 2,000 copies printed.
- Sponsoring Agencies: Akademiya nauk Uzbekskoy SSR; Nauchno-tekhnicheskiy komitet Soveta Ministrov UzssR.
- Resp. Ed. for this book: L.G. Gurvich; Ed. of Publishing House: I. G. Gaysinsiaya; Tech. Ed.: V. P. Bartseva.
- PURPOSE: This book is intended for nuclear physicists and other members of the scientific community interested in recent progress in the peaceful uses of atomic energy.
- COVERAGE: This collection of abstracts of reports and papers read at the Tashkent Conference on the Peaceful Uses of Atomic Energy reports on research on a number of theoretical problems in nuclear and radiation physics, practical problems

  Cardel/28

6

Outlines of Reports of the Tashkent Conference (Cont.)

sov/4586

and methods in the preparation of radioactive isotopes, and the application of isotopes in industry, geology, agriculture, medicine, plant and animal biology, and other branches of the national economy and scientific research. The Table of Contents has been expanded to include authors and titles of abstracted papers appearing in section headings "Plenary Sessions" through "Radioactive Isotopes and Nuclear Radiations in Chemistry" No personalities are mentioned. There are no references.

TABLE OF CONTENTS:

Plenary Sessions

[Arifov, U. A., Institut yadernoy fiziki AN UzSSR (Institute of Nuclear Physics AS Uzbekskaya SSR). Perspectives for the Development of Scientific Research at the Institute of Nuclear Physics AS Uzbek SSR ]

[Kulish, Ye. Ye., and G. M. Fradkin, Glavnoye upravleniye po ispol'zovaniyu atomnoy energii pri Sovete Ministrov SSSR (Main Administration for Utilization of Atomic Energy of the Council of Ministers of the USSR). Production of Radioactive Isotopes in the Soviet Union]

Cars 2/28

QRABLEVSKIY, V.N.; KULISH, Ye.Yo.; MATYUSHINA, N.A.; POPOVA, G.L.;
POTAPOV, S.P.; SAVITSKIY, P.S.; TEREKHOVA, V.N.; FRADKIN, G.M.;
LABAZNOV, V.I., red.; VLASOVA, N.A., tekhn.red.

[Isotopes, radiation sources, and radioactive materials; a catalog] Izotopy, istochniki izlucheniia i radioaktivnye materialy; katalog. Sost. avtorskim kollektivom: V.N.Grablev-materialy; katalog. Sost. avtorskim kollektivom: V.N.Grablev-materialy; katalog. Izd-vo Glav.uprav.po ispol'zovaniiu atomnoi skii i dr. Moskva, Izd-vo Glav.uprav.po ispol'zovaniiu atomnoi energii pri Sovete Ministrov SSSR, 1959. 269 p. (MIRA 12:12)

1. Russis (1923- U.S.S.R.) Glavnoye upravleniye po ispol'zovaniyu atomnoy energii. (Radioactive substances)

S/089/60/009/003/013/014 B006/B063

AUTHOR:

Kulish, Ye. Ye.

14

TITLE:

α-, β-, and y-Radiation Sources for Control and Automation

of Technological Processes

PERIODICAL:

Atomnaya energiya, 1960, Vol. 9, No. 3, pp. 241-242

TEXT: The present article gives a survey of the instruments and radiation sources used at present in the Soviet Union. The properties and range of application of the various sources are discussed. Among the instruments used at present in Soviet industry are contactless, radioactive thickness gauges; densimeters; level-meters; defectoscopes, etc. These and many other instruments help to solve problems in technology and research. Many of these instruments are now mass-produced: level-indicators of the type PMY-1 (RIU-1), level-meters of the types YP-6A (UR-6A) and YP-7 (UR-7), densimeters of the type TMP-2 (PZhR-2), pressure gauges of the type MMP-3A (MIR-3A), and other instruments are manufactured by the Kaluzhskiy zavod pirometricheskikh priborov (Kaluga Factory for Pyrometers); thickness gauges of the types MTY-495 (ITU-495), MTY-496 (ITU-496), and

Card 1/3

 $\alpha-,~\beta+,~and~\gamma-Radiation Sources for Control and Automation of Technological Processes$ 

5/089/60/009/003/013/014 B006/B063

FT-150 (GT-150), weight meters of the type BMB(BIV), difference meters of the type P-4 (R-4), piece counters of the type PCH-11 (RSP-11), etc. by the Tallinskiy zavod KIP (Tallin Factory KIP); electronic relays by the Kher'kovskiy zavod KIP (Khar'kov Factory KIP): gamma instruments for defectoscopic purposes by the Moskovskiy zavod "Mosrentger" (Moscow Factory "Mosrentgen"), and many other instruments. The demands made or industry on radiation sources are particularly high; so they are extended to aggressive media, shocks, vibrations, and temperatures between and t in three varieties: 1) in the form of wires, rods, etc. The cotting of al in nometimes enclosed by Al foil as, e.g., in the case 2004 2) The active material is sealed in ampoules (for average of a gn a tivities). Single or double containers made of glass or met l'are unit according to the kind of source. 3) The sources are deposits of active material, placed on backings of different materials (especially for Sr90, pm 147, Pu, etc.). More than 200 sources of different seems are a produced by industry from 14 isotopes. In this connection it is noted that, as a result of bremsstrahlung and radiation due to internal conve sion, electron capture, and positron annihilation, numerous gamma sources Card 2/3

r-, f-, and y-Radiation Courses for Control and Automation of Technological Processes

c/089/60/009/015/015/014 8006/8065

emit spectra that differ largely from the spectra given in tables for the respective isotopes. For defectoscopic purposes the following soft emitters are recommended for light alloys, metals, and thin foils of heavy metals, as well as for technological control of materials with a low atomic number: Bu155, Se75, Ce144, and Zn65. Beta emitters may also be divided into two groups according to their spectral "purity": 1) "pure" beta emitters (Pm147, Tn204, Sr90, and Ce144) which are particularly suitable for piece counters, thickness gauges, etc.; 2) sources with a large bremsstrahlung admixture (Ce144 on Ru106 plates, and Gr90 in sources of the type BM(BI)), which are of special us; for instruments in which radiation penetrates the material.

Card 3/3

FRADKIN, G.M.; KULISH, Ye.Ye.; PCHILINTSEVA, G.M., red.; POPOVA, S.M., tekhn. red.

[Sourses of  $\propto$ ,  $\beta$ ,  $\gamma$ , and neutron radiation for the automation and control of industrial processes] Istochniki  $\sim$ -,  $\beta$ -,  $\gamma$ -i neitronnykh izluchenii dlia kontrolia i avtomatizatsii tekhnologicheskikh protsessov. Moskva, Gos.izd-vo lit-ry v oblasti atomnoi nauki i tekhniki, 1961. 86 p. (MIRA 15:1) (Radioactive substances—Industrial applications)

#### "APPROVED FOR RELEASE: 08/23/2000

CIA-RDP86-00513R000927430010-5

KULISH, Ye. Ye.

"Some Problems of Radioisotope Production in Research Reactors of the IRT and VVRS Types."

report presented at the Symposium on Programming and Utilization of Research Reactors, IAEA, Vienna, 16-21 Oct 1961.

5/638/61/001/000/003/056 33097 B102/B138 Kulish, Ye. Ye., Fradkin, G. M. Production of radioisotopes in the USSR Tashkentakaya konferentaiya po mirnomy ispolizovaniyu Tashkentskaya konferentsiya po mirnomy 1spolizovaniyu Tashkent, 1959, Trudy v. 1. Tashkent, 1959, Trudy v. 1. Tashkent, 1961. 21.4000 TEXT: The authors give a survey of the most important details of soviet isotone production. which has greatly increased in the last few years. AUTHORS: TEXT: The authors give a survey of the most important details of govie isotope production, which has greatly increased in the last few years. isotope production, editions have also been laid down for isotope standard 7'N (TU) specifications isotope production, which has greatly increased in the last few years the production processes for a standard production. During the last two years the production processes. Standard Ty (TU) specifications have also been laid down for isotope 40 new Most two years the production processes developed. High-purity production. During the last two years compounds have been developed. High-purity isotopes and about 200 new labelled compounds (n, y) reactions. Grant the isotopes are produced as results of the isotopes are produced as TITLE: isotopes and about 200 new labelled compounds have been developed. High-purity of (n, y) reactions. Stable of the isotopes are produced as results of atting high-purity stable radioisotopes are either obtained by irradiating high-purity. SOURCE: of the isotopes are produced as results of (n,7) reactions. High-left of the isotopes are produced as results of (n,7) reactions. High-left of (n,7) reactions that it is a different reaction of the isotopes are either obtained by irradiating the target is a different reactions in which the target is a different isotopes or by choosing reactions in which the target is a different isotopes or by choosing reactions. radioisotopes are either obtained by irradiating high-purity stable irradiating high-purity stable irradiating high-purity stable which the target is a different which the target is a different reactions in which the target has become verification or by choosing reactions in the latter method has become verification to be income produced. isotopes or by choosing reactions in which the target is a different very is the latter method has become (n,p); The latter method this made (n,p); The latter method this made (n,p); The latter method this made (n,p); The latter method has been started up, as also obtained for element from the fast reactor has been started up, as also obtained from the fast reactions possible. New isotopes are also obtained (n,a) and (n,2n) reactions possible. popular since the fast reactor has been started up, as this made (n,p); from (n,a) and (n,2n) reactions possible. New isotopes are also obtained from card 1/3 APPROVED FOR RELEASE: U8/25/2000

Production of radioisotopes ...

33081 \$/638/61/001/000/003/056 B102/B138

the decay of isotopes produced by  $(n,\gamma)$ , by (T,n) and (T,2n) reactions and from uranium fission fragments (Pm 147, Cs 137, Sr 90 etc). They can be separated in the pure state. The new labelled compounds include a large number of complex compounds such as glycerin, glyceric acid, and benzyl alcohol which are important in biochemistry, and pharmaceutical products labelled with C14 Besides the conventional chemical methods of producing labelled compounds increasing use is made of the energy of the recoil nuclei, and the method of isotope exchange is also employed. The activities and dimensions of the  $Eu^{152}$ ,  $Co^{60}$ ,  $S^{75}$ ,  $Tu^{170}$ ,  $R^{226}$ ,  $C^{144}$ ,  $Eu^{155}$ , and  $Cs^{137}$  preparations commercially produced since 1959 are tabulated. 95% of the annual consumption of  $5 \cdot 10^5$  curies consists of  $\alpha$ -,  $\beta$ -,  $\gamma$ - and n-emitters. Production of the latter, which have become important in mining and well drilling, has been particularly accelerated just recently. Besides Po-Be, Ra-Be sources are also used, which are produced with different dimensions and with certain maximum intensities between 1.104 and 3.107 n/sec. The prices of the most important isotope preparations are given. To standardize activity measurements comparative measurements with standard apparatus

33081 \$/638/61/001/000/003/056 B102/B138

Production of radioisotopes ...

are suggested. Of the short-lived isotopes ( $t_{1/2}$ <3 d) 52 different compounds of 42 isotopes are being produced at present. The most important are Na<sup>24</sup>, Si<sup>31</sup>, K<sup>42</sup>, Cu<sup>64</sup>, Br<sup>32</sup>, Au<sup>198</sup>, J<sup>131</sup>, and P<sup>32</sup>. The starting materials are the chemically or analytically pure reagents. Special laboratories are needed to produce preparations of short-lived isotopes. A project for such a laboratory, produced by the Moskovskiy proyektnyy institut (Moscow Planning Institute), is obtained. There are 1 figure and 5 tables.

ASSOCIATION:

Glavnoye upravleniye po ispol'zovaniyu atomnoy energii pri Sovete Ministrov SSSR (Main Administration for the Utilization of Atomic Energy at the Council of Ministers of the USSR)

Card 3/3

\$/194/62/000/001/028/066 D201/D305

AUTHORS:

Fradkin, G. M. and Kulish, Ye. Ye.

TITLE:

Sources of alpha-, beta-, gamma- and neutron-radia-tion for the control and automation of technological

processes

SHEED THE REPORT OF THE PROPERTY OF THE PROPER

PERIODICAL:

Referativnyy zhurnal, Avtomatika i radioelektronika, no. 1, 1962, abstract 1-2-129 g (Radioakt. izotopy i yadern. izlucheniya v nar. kh-ve SSSR. T. I., M.,

Gostoptekhizdat, 1961, 95-109)

TEXT: The properties of artificial radioactive isotopes are considered, their characteristics given, ranges of applications shown and the classification of f-, f- and neutron sources, as used in the USSR are given. 6 figures, 6 tables. Abstracter's note: Complete translation. 7

Card 1/1

SAVITSKIY, P.S., otv. red.; -KULISH, Ye.Ye., red.; FRADKIN, G.M., red.;
VORONOVA, A.I., red.; POPOVA, S.M., tekhn. red.

[Isotopes, radiation sources and radioactive materials;
eatalog]Isotopy istochniki izluchenii i radioaktivnye materialy;
eatalog, Izd.2., dop. Moskva, Gosatomizdat, 1962. 218 p.
katalog, Izd.2., dop. Moskva, Gosatomizdat, 1962. (MIRA 16:2)

1. Russia (1923- U.S.S.R.)Gosudarstvennyy komitet po ispol'zovaniyu atomnoy energii.

(Isotopes) (Radiation)

RUMYANTSEV, S.V.; DOBROMYSLOV, V.A.; SHTAN', A.S.; KULISH, Ye.Ye.

Radiation characteristics of N -sources from Sm 145 and enriched Se75. Atom. energ. 15 no.6:511-514 D '63.

(MIRA 17:1)

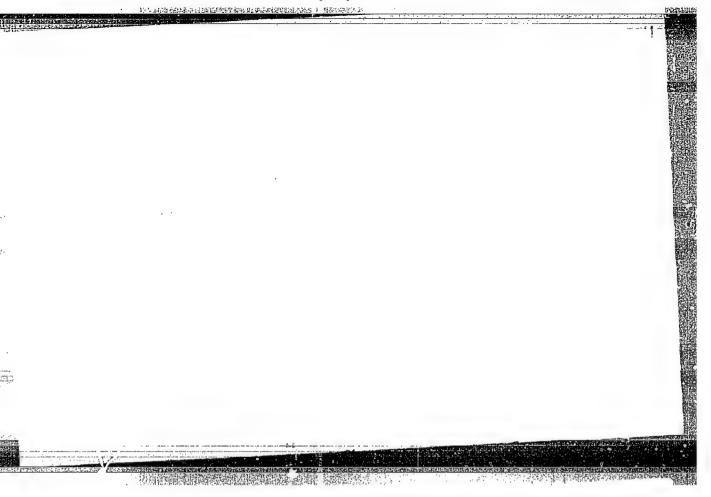
Cand Geolog-Mineralog Sci KULISH, Yu. S.

Dissertation: "Experiment for Investigating an Interaction of Grounds with Bitumeus and Their Components." 30/3/50

Moscow Order of Lenin State V imeni M. V. Lomonosov.

SO Vecheryaya Moskva Sum 71

CIA-RDP86-00513R000927430010-5" APPROVED FOR RELEASE: 08/23/2000



APPROVED FOR RELEASE: 08/23/2000 CIA-RDP86-00513R000927430010-5"

# KULISHENKO, AZ.

USSR/Physical Chemistry - General Problems of Isotope Chemistry, B-7

Abst Journal: Referat Zhur - Khimiya, No 19, 1956, 60988

Author: Kulishenko, A. Z.

Institution: None

Title: Equation of the Curve of Absorption of Radiction in Active Layer of Sample for 835

Original
Periodical: Zh. fiz. khimii, 1954, 28, No 7, 1186-1192

Abstract: On the basis of measurements of activity of BaSO4 precipitates (tagged with S35) of different thickness a more precise empirical

(cagged with 55%) of different unickness a more precise empirical formula has been derived for computation of the absorption of formula has been derived for computation of the absorption of S35:  $I_X/I_0 = 1 - \exp\left(-23x\right)$  (1), where  $I_X = -$  activity of sample of thickness x mg/cm<sup>2</sup> and  $I_0$  activity of "satutivity of sample of thickness x mg/cm<sup>2</sup> and  $I_0$  activity of absorption" layer. The error in computation of the degree of absorption tion of radiation thus does not exceed 2%. Presented is a table of corrections of absorption for different x calculated in accordance with equation (1). Shown is the necessity of making

Card 1/2

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CIA-RDP86-00513R000927430010-5

USSR/Physical Chemistry - General Problems of Isotope Chemistry, B-7

TATAN I SALES CONTROL OF THE ANALYSIS OF THE SALES OF THE

Abst Journal: Referat Zhur - Khimiya, No 19, 1956, 60988

Abstract: correction for absorption in filter paper in the tase of samples of a thickness below that of the "saturation" layer.

Card 2/2

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### "APPROVED FOR RELEASE: 08/23/2000

## CIA-RDP86-00513R000927430010-5

KHILSHENKO, AZ. USSR/Chemistry - Fuels FD-3239

Card 1/1

Pub. 41-20/22

Author

: Kulishenko, A. Z. and Medvedev, K. P., Khar'kov

Title

: Use of radioisotope S35 in investigating the thermochemical

conversion of sulfur compounds in coal during coking

Periodical

Izv. AN SSSR, Otd. Tekh. Nauk 7, 145-148, Jul 55

Abstract

: Gives formulas for computing distribution of active sulfur, added radioactive sulfur, pyritic sulfur, and organic sulfur in the products of thermal decomposition of coal. Explains experimental procedure used to verify theory. Finds results in agreement with those obtained by Eaton, Hyde, and Road (Analytical Chemistry, Vol 21, No 9, 1949). Three tables.

Seven references, 6 USSR.

Institution

Submitted

: 28 February 1955

SOV/65-58-9-12/16

AUTHORS:

Medvedev, K. P. and Kulishenko, A. Z.

TITIE:..

Investigations on the Participation of Forms of Sulphur During the Formation of Carbon Disulphide From Coke Oven Gas with the Aid of Radio-Isotopes. (Issledovaniye uchastiya form sery uglya v obrazovanii serougleroda koksovogo gaza pri pomoshchi radicizotopov)

Khimiya i Tokhnologiya Topliv i Masol, 1958, Nr 9,

pp 62 - 66, (USSR)

ABSTRACT:

PERIODICAL

These investigations concern the types of sulphur participating in the forms of carbon disulphide during the coking of coal and schists. The use of radioactive isotopes makes it possible to determine the nature and quantity of each type of sulphur taking part in the process. Details of experimental procedures and calculations were described in earlier publications (Refs. 13). 0.2 - 0.4% CaSO<sub>4</sub>.2H<sub>2</sub>O, tagged with the radioactive S.5, is added during investigations of the thermal chemical conversions. Coals from the Donets Basin grade G and PS were used; their composition and also sulphur content are given in Table 1. Table 2: data on the conversion of the sulphur to sulphur disulphide depending on the temperature of heating and the grade of coal.

Card 1/3

SOV/65-58-9-12/16

Investigations on the Participation of Forms of Sulphur During the Formation of Carbon Disulphide From Coke Oven was with the Aid of Radio-

Isotopes.

It was found that mineral sulphur takes part in the formation of carbon disulphide. The role of pyrite and organic sulphur was investigated. The same grades of, coal and standard schists comprising 20% grade G, 40% grade PZh, 20% K and 20% PS grade coal were tested. Analysis data is given (Table 3). The separation of natural sulphur in the form of carbon disulphide proceeds at a greater rate in less metamorphosal coal grade G than in the coal grade PS. Results on the role of natural, pyrite and organic sulphur during the formation of carbon disulphile are given in Table 4. Table 5: comparison of the types of sulphur in carbon disulphide formed during the coking of coals and schists. It was concluded that the degree of metamorphosis of the coal is an important factor. Details of complex reactions of disintegration and synthesis occurring at high temperatures in coke ovens can be obtained by using this

Card 2/3

SOV/65-58-9-12/16

Investigations on the Participation of Forms of Sulphur During the Formation of Carbon Disulphide From Coke Oven Gas with the Aid of Radio-Isotopes.

There are 5 Tables and 7 References: method. 1 German and 6 Soviet.

3. Coal gas--Chemical 2. Sulfur-Chemidal react ons 1. Carbon sulfides -- Properties 4. Sulfur isotopes (Radioactive) -- Applications properties

Card 3/3

CIA-RDP86-00513R000927430010-5" APPROVED FOR RELEASE: 08/23/2000

68-53-4-4/21

Kulishenko, A. Z. The Use of Redicactive Level and Density Meters for LUTHOR: Controlling the Productivity of Flotation Machines (Primeneniye radioaktivnykh urovnemerov i plotnomerov TITLE:

dlya kontrolya i regulirovaniya proizvoditel'nosti

flotatsiomykh machin)

PERIODICAL: Koks i Khlaiya, 1958, Nr 4, pp 10-14 (USSR) ABSTRACT: For an automatic control of the feed of pulp to flotation

machines and its density, radioactive level and density Heters Were used at the Chumakovskaya TsCF. The principle of operation of the level actor UR-4 (Fig.1) was as rollows a source of  $\gamma$ -radiation Co<sup>60</sup> and a receiv were placed

in special agasuring columns on verticall, moveable suppores. The receiver and the source move clong the height synchronically and when the middle of the receiver is on the boundary of mediums the system is in

equilibrium. With a change in the level of liquid the absorption of Y-radiation also changes, the signal is passed to the servomotor which appropriately moves the source and the receiver. The density meter was based on the variation in absorption of  $\gamma$ -radiation from Co

Card 1/2 with the pulp density. It was found by controlling the

The Use of Radioactive Level and Density Meters for Controlling the Productivity of Flotation Machines

pulp feed and its density the output of flotation machines can be considerably increased. The above two instruments can also be used for the complete automation There are 3 figures, 5 tables and 3 references, all of which are Soviet.

ASSOCIATION: UKhIN

1. Minerals--Flotation 2. Flotation machines--Control systems 3. Radiation meters-Applications 4. Cobalt isotopes (Radioactive)

--Applications

Card 2/2

CIA-RDP86-00513R000927430010-5" APPROVED FOR RELEASE: 08/23/2000

KULISHENKO, A.Z.; KHARITONOV, A.S.; KUZ'MENKO, A.S.; GARMASH, G.K.

Determination of the viscosity of magnetite in suspension by measuring its magnetic permeability in conjunction with a radioactive densitometer. Koks i khim. no.2:13-15 '60. (MIRA 13:5)

1. Ukrainskiy uglekhimicheskiy institut(for Kulishenko, Kharitonov). 2. Yasinovskiy koksokhimicheskiy savod(for Kus'-menko, Garmash).

(Yasinovka--Coal preparation) (Magnetite)

KULISHRNKO, A.Z.

Automatization of the flotation division at the Yasinovka By-Product Coking Plant by means of radioactive density meters. Koks.1 khim. no.5:17-19 160. (MIRA 13:7)

1. Ukrainskiy uglekhimicheskiy institut.
(Yasinovka—Flotation—Equipment and supplies)
(Automatic control) (Densitometers)

KULISHENKO, A.Z.; MEDVEDEV, K.P.

Use of the radioisotopes S35 in the study of the process of coal desulfurization. Koks i khim. no.7:5-10 '60. (MIRA 13:7)

1. Ukrainskiy uglekhimicheskiy institut.
(Coal) (Desulfuration) (Radioisotopes)

KULISHENKO, A.Z.; BOCHAROV, N.G.; KUZIMENKO, A.S.

New flow sheet and automatic control of the flotation process. (MIRA 15:3) Koka i khim. no.3:3-11 '62.

Ukrainskiy uglekhimicheskiy institut (for Kulishenko).
 Yasinovskiy koksokhimicheskiy zavod (for Bocharov, Kuzemenko).
 (Coal preparation) (Flotation) (Automatic control)

CIA-RDP86-00513R000927430010-5" APPROVED FOR RELEASE: 08/23/2000

KULISHENKO, A.Z., kand. tekhn. nauk; KHARITONOV, A.S.; GRIDIN, I.A.

Capacitance transducer for measuring the moisture content of the coking charge in the flow. Koks i khim. no.9:16-19 '62. (MIRA 16:10)

1. Ukrainskiy uglekhimicheskiy institut.
(Moisture—Measurement) (Coke)

GARMASH, G.K., GRIDIN, I.R.; KULISHENKO, A.Z.; KHARITONOV, A.S.

Magnetic density relay. Zav.lab. 29 no.2:241-242 163.

(MIRA 16:5)

(Electric relays) (Automatic control) (Suspensions (Chemistry))

KULISHENKO, A.Z., inzh.; RYBALKO, A.M., inzh.; KISHTEV, V.P., inzh.; KIRILYUK, L.V.

Automatic supply of molding sand with the use of radioisotopes. Mashinostroenie no.6:58-59 N-D '64 (MIRA 18:2)

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